Amendments to the Claims

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Claims 1-59 (Cancelled).

60. (Currently amended) A semiconductor processing method of depositing SiO₂ on a substrate comprising:

providing a substrate within a chemical vapor deposition reactor, the chemical vapor deposition reactor being a cold wall reactor;

feeding a gaseous silicon precursor into the chemical vapor deposition reactor; feeding gaseous H₂O₂ into the chemical vapor deposition reactor; and utilizing the silicon precursor, depositing SiO₂ over a surface of the substrate at a rate of about 7000 Å per minute to form a layer of SiO₂.

- 61. (Previously presented) The semiconductor processing method of claim 60 wherein the gaseous H_2O_2 and the gaseous silicon precursor are fed into the chemical vapor deposition reactor independently.
- 62. (Previously presented) The semiconductor processing method of claim 60 wherein the gaseous H_2O_2 and the gaseous silicon precursor are fed into the chemical vapor deposition reactor simultaneously.

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- 63. (Previously presented) The semiconductor processing method of claim 60 wherein the gaseous H_2O_2 and the gaseous silicon precursor are comprised by a gaseous mixture which is fed into the chemical vapor deposition reactor.
- 64. (Previously presented) The semiconductor processing method of claim 60 further comprising feeding gaseous H₂O into the chemical vapor deposition reactor.
 - 65. (Cancelled).
- 66. (Previously presented) The semiconductor processing method of claim 60 wherein the surface of the substrate comprises a high aspect ratio topology and wherein the layer is conformally deposited over the topology.
 - 67. (Previously presented) The semiconductor processing method of claim 60, wherein the silicon precursor is selected from the group consisting of: tetraethoxysilane (TEOS), diethylsilane (DES), tetramethylcyclo-tetrasiloxane (TMCTS), fluorotriethoxysilane (FTES), and fluorotrialkoxysilane (FTAS).
- 68. (Previously presented) The semiconductor processing method of claim 60 wherein the depositing is conducted at a processing temperature of about 400°C.
 - 69. (Cancelled)

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70. (Previously presented) The semiconductor processing mixture of claim 63 wherein the gaseous mixture comprises from about 5% to about 15% by volume of H_2O_2 .